

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P266293

Luminaire Tested: **UTLD-AF24-30-D-U-5WQ-FP-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266293
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-24)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-30-D-U-5WQ-FP-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 375mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
AND FROSTED LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2604.8 lumens
Efficiency: N/A
Efficacy: 84.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B1 - U3 - G2

Input Watts (W): 31
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



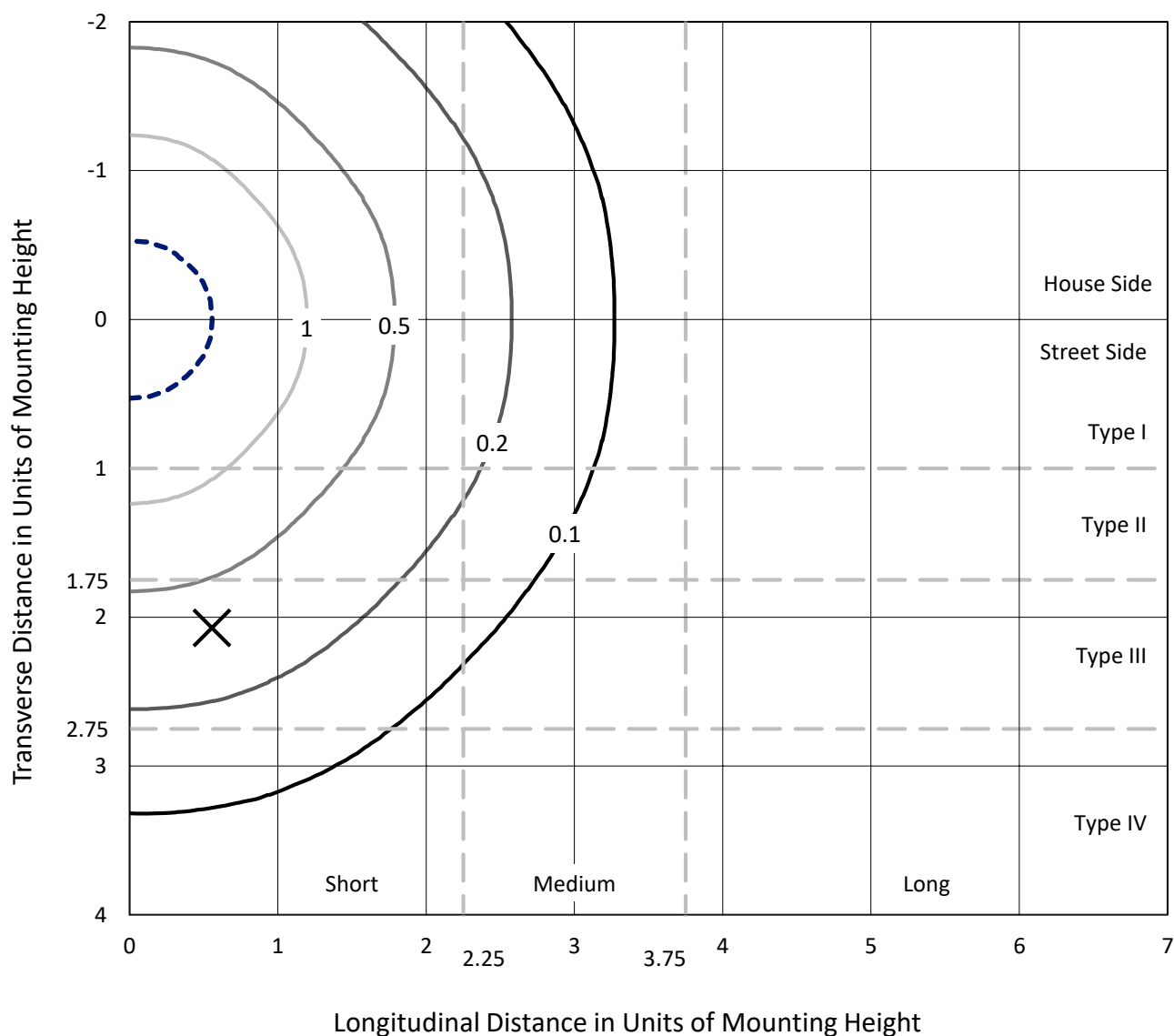
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

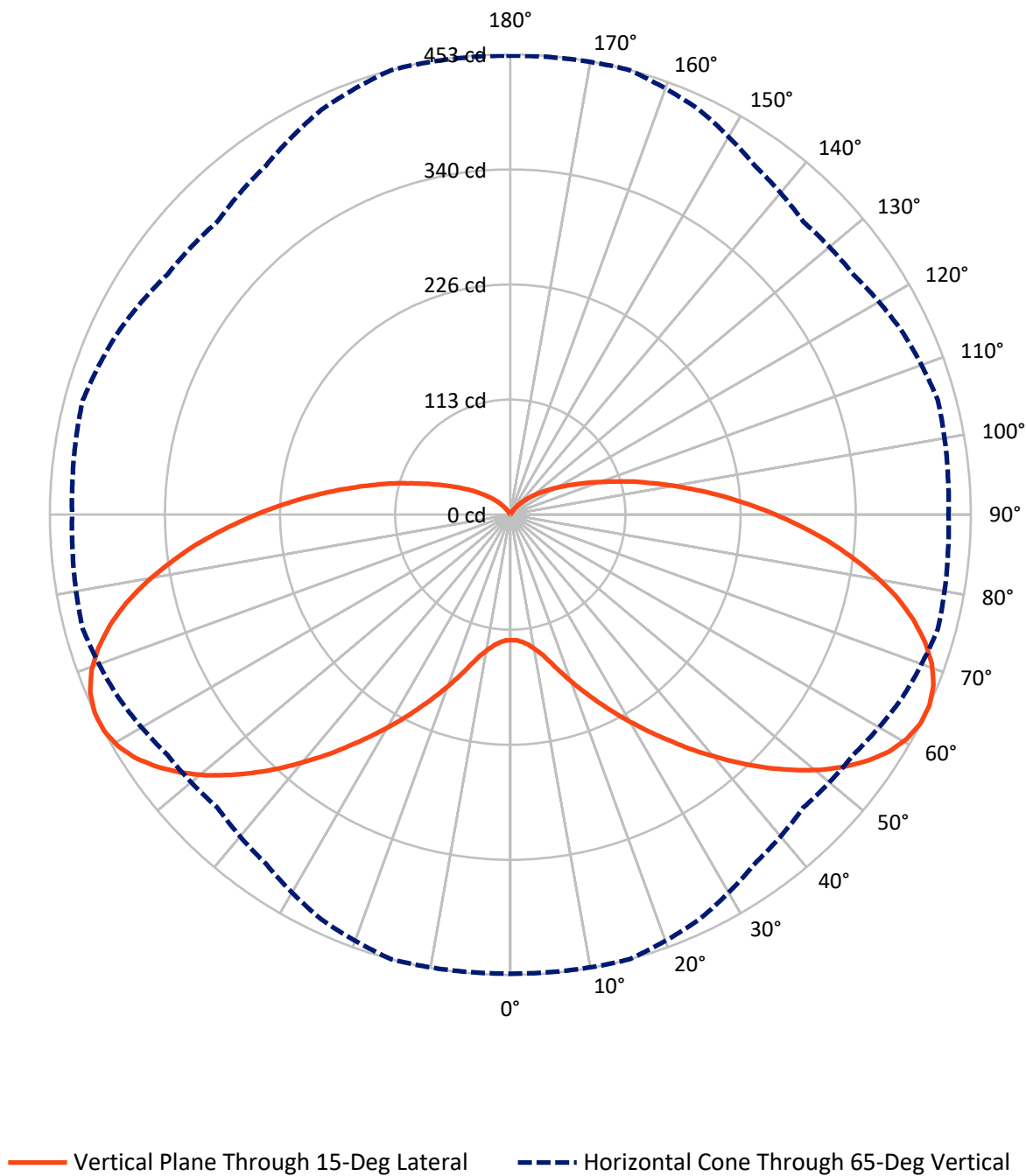


Based on 10 foot mounting height. Maximum calculated value = 1.6 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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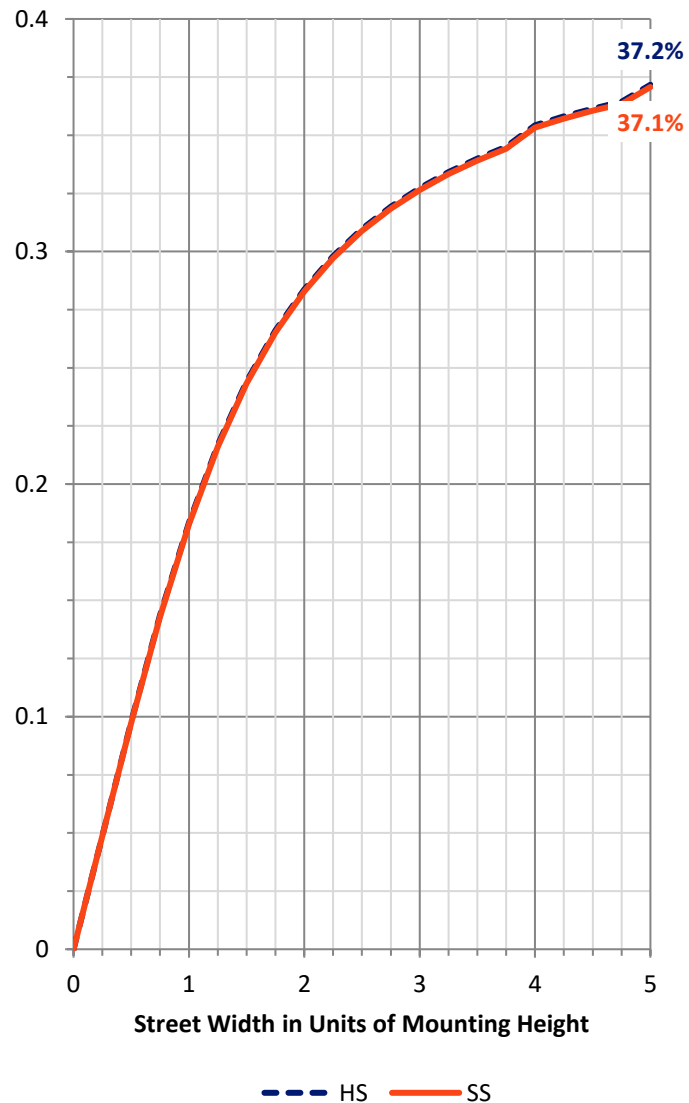
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1059.9	242.6	1302.4
	% Fixture	40.7	9.3	50.0
Street Side	Lumens	1059.9	242.6	1302.4
	% Fixture	40.7	9.3	50.0
Total	Lumens	2119.7	485.1	2604.8
	% Fixture	81.4	18.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.3	0.5
10°-20°	43.6	1.7
20°-30°	95.3	3.7
30°-40°	171.7	6.6
40°-50°	268.5	10.3
50°-60°	365.7	14.0
60°-70°	424.4	16.3
70°-80°	410.0	15.7
80°-90°	328.2	12.6
90°-100°	223.6	8.6
100°-110°	134.9	5.2
110°-120°	73.6	2.8
120°-130°	35.6	1.4
130°-140°	13.9	0.5
140°-150°	3.3	0.1
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2119.7	81.4
0°-180°	2604.8	100.0

Coefficient of Utilization



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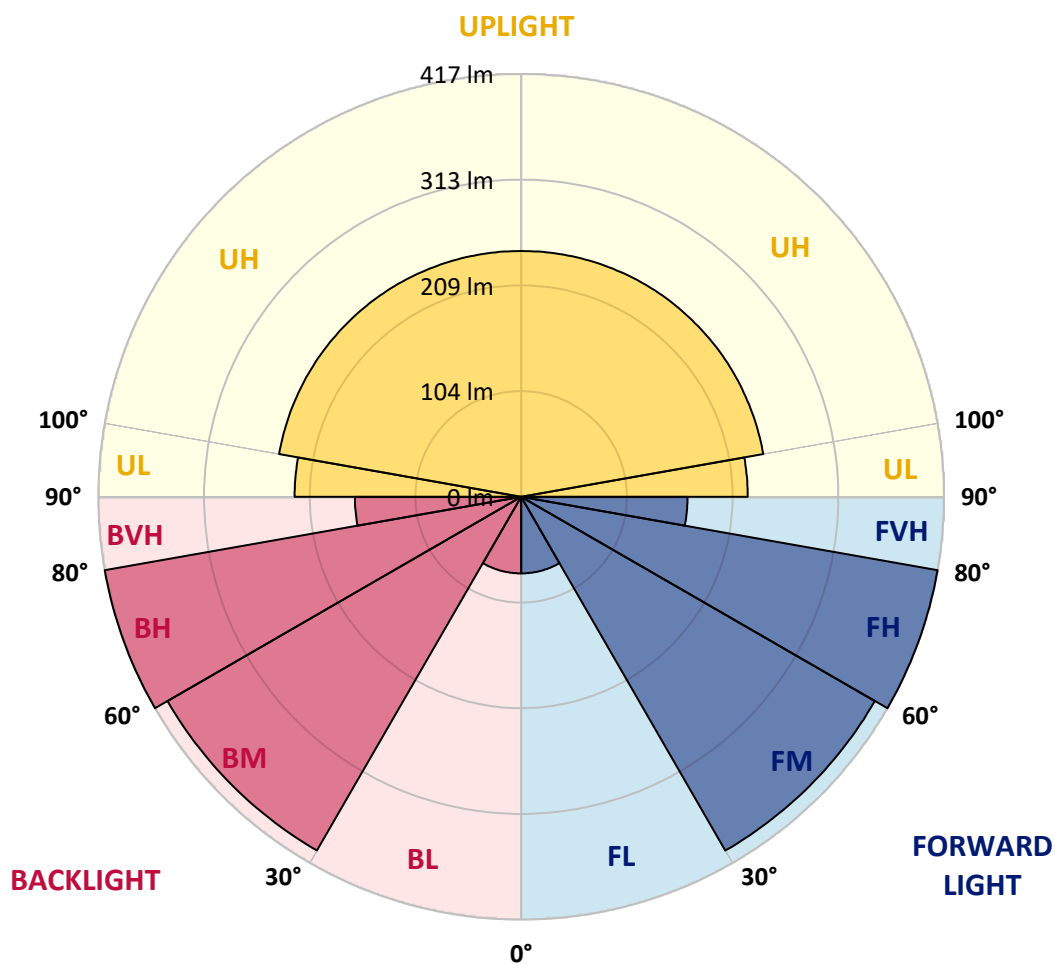
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	75.6	2.9			
FM	(30°-60°)	403.0	15.5			
FH	(60°-80°)	417.2	16.0			G0/660
FVH	(80°-90°)	164.1	6.3			G2/225
BL	(0°-30°)	75.6	2.9	B0/110		
BM	(30°-60°)	403.0	15.5	B1/1000		
BH	(60°-80°)	417.2	16.0	B1/500		G0/660
BVH	(80°-90°)	164.1	6.3			G2/225
UL	(90°-100°)	223.6	8.6		U3/500	
UH	(100°-180°)	242.6	9.3		U3/500	

BUG Rating: B1-U3-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	123.5	123.5	123.5	123.5	123.5	123.5	123.5	123.5	123.5	123.5	123.5
2.5°	124.1	124.1	123.8	123.8	123.8	123.8	123.8	124.1	123.8	124.1	124.1
5°	125.9	126.1	125.9	125.9	126.1	125.9	125.9	126.1	125.9	125.9	125.9
7.5°	129.7	129.7	129.4	129.4	129.4	129.0	129.0	129.4	129.0	129.0	129.0
10°	134.9	134.9	134.7	134.7	134.3	133.9	133.9	133.9	134.3	134.3	134.3
12.5°	141.8	142.2	141.6	141.3	140.9	140.6	140.6	140.6	140.6	140.9	140.6
15°	152.4	152.4	151.6	150.3	149.4	148.9	148.4	148.9	149.7	149.9	150.6
17.5°	165.1	164.4	163.8	162.5	160.4	158.6	159.4	160.4	161.4	161.8	161.8
20°	178.1	178.1	177.1	175.2	173.6	171.9	172.2	173.0	173.6	174.2	173.9
22.5°	191.5	192.1	190.9	189.5	188.3	187.9	186.3	186.3	186.6	187.2	187.2
25°	207.6	206.9	205.9	204.6	204.3	204.3	201.9	200.7	201.0	201.3	201.3
27.5°	223.9	223.1	221.9	220.7	221.0	220.3	218.6	216.3	215.4	216.3	215.8
30°	240.1	239.8	238.6	237.6	238.3	237.6	235.6	232.0	231.5	231.8	232.0
32.5°	257.5	257.9	256.2	255.8	256.2	254.6	253.0	250.4	248.0	249.0	249.0
35°	276.8	276.8	274.5	274.8	273.9	272.2	270.3	268.4	266.1	267.1	266.3
37.5°	296.4	296.1	294.5	294.1	292.2	289.0	287.9	287.0	284.4	285.0	285.3
40°	317.3	316.4	314.0	313.8	309.8	306.2	305.6	305.6	302.6	304.3	304.5
42.5°	337.7	337.0	335.0	333.5	327.5	323.2	322.2	324.6	322.6	323.6	323.6
45°	357.9	356.3	355.5	352.7	344.8	339.2	339.6	342.6	342.9	342.9	342.2
47.5°	377.2	376.7	375.5	369.9	361.2	354.9	355.5	360.2	361.7	361.5	361.7
50°	396.2	395.2	394.9	387.6	375.9	368.7	370.3	376.2	379.8	378.7	379.2
52.5°	414.1	412.4	411.9	403.2	389.5	381.4	383.0	391.5	395.9	395.4	395.4
55°	428.1	427.6	427.1	416.8	401.1	392.2	394.4	404.0	410.4	409.2	408.9
57.5°	439.9	439.2	439.6	427.6	410.2	400.0	403.0	414.7	422.3	420.2	420.2
60°	448.4	447.7	448.1	435.3	416.8	405.6	409.2	421.7	430.5	428.1	427.9
62.5°	452.3	451.9	452.7	439.2	419.7	408.2	412.1	425.5	435.0	432.1	431.5
65°	451.7	451.9	452.9	439.6	419.2	407.6	411.9	425.5	435.3	432.1	431.0
67.5°	446.5	447.4	448.8	435.7	415.3	404.0	407.9	421.7	431.5	427.9	426.2
70°	436.7	437.7	439.9	427.6	408.2	396.8	400.4	413.8	422.7	418.3	416.4
72.5°	421.2	423.6	426.2	415.3	397.1	386.4	390.0	402.4	410.4	405.0	402.6
75°	402.0	405.2	408.9	399.7	382.7	372.8	376.5	387.6	393.2	388.0	383.7
77.5°	380.4	383.7	388.0	380.4	365.4	356.8	359.2	368.3	373.2	366.7	363.5
80°	354.3	357.9	363.8	358.9	346.7	338.2	340.8	347.5	349.7	342.9	338.7
82.5°	328.5	331.7	337.3	335.3	325.1	318.3	319.6	324.6	325.5	317.3	313.8
85°	300.8	303.6	310.9	310.5	303.0	297.3	298.3	301.3	299.0	290.2	286.3
87.5°	272.8	274.5	282.6	284.0	280.1	276.1	275.8	275.8	272.5	263.7	260.8
90°	245.7	247.5	255.3	259.5	257.3	254.0	253.3	252.0	245.4	237.3	235.4
92.5°	219.6	220.3	229.1	234.9	234.4	232.0	231.0	228.4	221.0	211.5	210.2
95°	195.1	195.8	204.3	210.8	212.4	211.8	209.8	206.3	196.4	186.9	186.6
97.5°	172.6	172.2	180.4	188.6	191.9	191.9	189.0	184.1	174.5	165.1	164.7
100°	152.0	151.4	158.8	168.6	172.2	173.0	170.3	163.8	152.9	145.4	145.7
102.5°	133.4	132.7	139.2	148.7	153.9	155.2	152.4	144.4	134.3	127.5	127.7
105°	117.0	116.3	121.9	131.1	136.9	138.2	134.9	127.5	116.3	111.5	112.1
107.5°	101.7	101.2	105.2	114.4	120.9	122.9	119.7	111.5	101.0	97.3	97.7
110°	89.6	89.2	91.2	99.7	106.9	108.9	104.9	96.4	87.6	85.2	85.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	78.8	77.9	79.1	86.5	93.2	95.4	91.4	82.6	75.8	74.9	75.2
115°	68.6	68.6	68.4	74.2	81.0	83.1	79.1	71.2	65.7	65.3	65.3
117.5°	60.5	59.7	59.5	63.2	69.3	71.5	68.0	60.7	57.2	57.5	57.9
120°	52.6	52.6	51.7	53.3	58.7	60.5	57.5	51.9	49.6	50.3	50.7
122.5°	46.2	45.8	44.7	45.2	49.0	50.9	48.0	43.7	43.2	44.5	44.5
125°	39.9	39.5	38.5	37.9	39.9	41.5	39.5	36.9	37.3	38.5	38.8
127.5°	34.3	34.0	32.7	31.4	32.3	33.3	32.0	30.7	32.3	33.3	33.6
130°	29.5	29.0	27.8	25.8	25.5	26.1	25.2	25.5	27.5	29.0	29.0
132.5°	24.9	24.9	23.1	20.9	19.7	19.7	19.7	20.9	23.1	24.6	24.9
135°	20.7	20.7	19.3	16.7	14.5	14.1	14.5	16.7	19.3	20.2	20.7
137.5°	17.0	16.7	15.5	13.0	10.2	9.5	10.2	12.8	15.5	16.7	16.7
140°	13.5	13.0	11.8	9.8	7.1	5.8	7.1	9.5	11.8	13.0	13.0
142.5°	9.8	9.8	8.5	6.8	4.6	3.7	4.6	6.8	8.9	9.5	9.8
145°	6.8	6.8	5.8	4.2	2.6	1.9	2.6	4.6	5.8	6.8	6.8
147.5°	4.6	4.6	4.0	2.6	1.6	1.0	1.6	3.0	4.0	4.6	4.6
150°	2.6	2.6	2.2	1.6	0.7	0.3	0.7	1.6	2.2	2.6	2.6
152.5°	1.3	1.3	1.0	0.7	0.3	0.3	0.3	0.7	1.3	1.3	1.6
155°	0.7	0.7	0.7	0.3	0.0	0.0	0.0	0.3	0.7	0.7	0.7
157.5°	0.3	0.3	0.3	0.0	0.3	0.3	0.3	0.3	0.3	0.3	0.3
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)